User's Guide

MegaWorks 510D

Version 1.0
August 2001

Safety & Regulatory Information

The following sections contain notices for various countries:

CAUTION: This device is intended to be connected by the user to a CSA/TUV/UL certified/listed IBM AT or compatible personal computer in the manufacturer's defined operator access area. Check the equipment operating/installation manual and/or with the equipment manufacturer to verify/confirm if your equipment is suitable for devices.

Modifications

Any changes or modifications not expressly approved by the manufacturer of this device could void the user's authority to operate the device.

WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

Compliance

This product conforms to the following Council Directive:

❏ Directive 89/336/EEC, 92/31/EEC (EMC), 73/23/EEC (LVD), (73/23/EEC), as amended by directive 93/68/EEC.
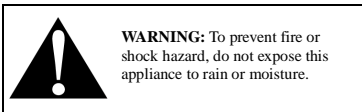
Important Notice

The serial number for the *MegaWorks 510D* is located on the subwoofer. Please write this number down and keep it in a secure area. This is for your security.

CAUTION

Take care to prevent accidental operation of your new loudspeaker system at excessive sound pressure levels! In a typical personal computer installation, the *MegaWorks 510D* satellite speakers are less than a meter from the listener.
If you do not hear sound from your new speaker, keep the MegaWorks 510D's volume control at 40% of its rotation range (the 11:o'clock position,approxmately) until you hear sound. This will prevent accidental operation at uncomfortably loud levels.

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS - All safety and operating instructions should be read before the *MegaWorks 510D* amplified subwoofer/satellite system is operated.

RETAIN INSTRUCTIONS - The safety and operating instructions should be retained for future reference.

HEED WARNINGS - All warnings on the subwoofer and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS - All operating and use instructions should be followed.

CLEANING - Unplug the subwoofer from the wall outlet or other power source before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

ATTACHMENTS - Do not use attachments not recommended by Cambridge SoundWorks as they may cause hazards.

WATER AND MOISTURE - Do not use the subwoofer near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES - Do not place the *MegaWorks 510D* system on an unstable cart, stand, tripod, bracket, or table. The subwoofer or satellites may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by Cambridge SoundWorks, or sold with the product. Any mounting of the satellites or subwoofer should follow the manufacturer's instructions, and should use a mounting accessory recommended by Cambridge SoundWorks.

VENTILATION - Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the subwoofer and to prevent it from overheating; and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. The subwoofer should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or Cambridge SoundWorks' instructions have been adhered to.

HEAT - The subwoofer should be situated away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

POWER SOURCES - The subwoofer should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.

POLARIZATION - The subwoofer may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

POWER-CORD PROTECTION - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the subwoofer.

LIGHTNING - For added protection for the *MegaWorks 510D* system during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the subwoofer due to lightning and power-line surges.

OVERLOADING - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY - Never push objects of any kind into the subwoofer through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the subwoofer.

SERVICING - Do not attempt to service the subwoofer yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE - Unplug the subwoofer from the wall outlet or other power source and refer servicing to qualified service personnel under the following conditions:

a) When the power-supply cord or plug is damaged.

b) If liquid has been spilled, or object have fallen into the subwoofer.

c) If the subwoofer has been exposed to rain or water.

d) If the subwoofer does not operate normally by following the operating instructions; or exhibits a distinct change in performance.

e) If the product has been dropped or damaged in any way.

REPLACEMENT PARTS - When replacement parts are required, be sure the service technician has used replacement parts specified by Cambridge SoundWorks or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK - Upon completion of any service or repairs to the *MegaWorks 510D* system, ask the service technician to perform safety checks to determine that the *MegaWorks 510D* system is in proper operating condition.

WALL OR CEILING MOUNTING - The *MegaWorks 510D* satellites should be mounted to a wall or ceiling only as recommended by Cambridge SoundWorks.
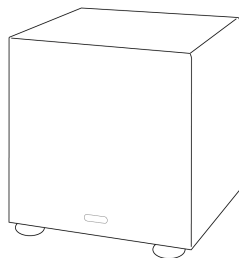
MegaWorks 510D

Thank you for buying *MegaWorks 510D* by Cambridge SoundWorks. This 5.1 amplified multimedia speaker system supports the best audio technology today: EAX™, DirectSound® 3D, Dolby® Digital 5.1 and four-channel gaming, from either an analog source or a digital source of up to 96 kHz datarate or 24 bit word length. This makes *MegaWorks 510D* the ideal companion for the latest Sound Blaster Audigy/Live! sound cards supporting 5.1-channel output. Enjoy Dolby Digital 5.1-channel surround sound using software DVD.

Contents

Inventory

❏ Examine each unit carefully. If anything is missing or damaged, do not install or use the system. Contact the retailer where the system was purchased.

❏ Save the carton and its inserts in case you need to ship or move your *MegaWorks 510D* system later.

Subwoofer

Satellites (5)

Desktop stands (installed on satellites, removable)
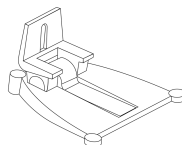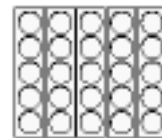
Strips of transparent Rubber Pads
(20 pads total)

AC Power Cable, UK

Volume Control

Centre Stand

AC Power Cable, Europe

Triple Stereo Line In
Audio Cable

3m Speaker Cable (3)

Screws and plastic anchors (5)

Digital Cable (3-channel
miniplugs)

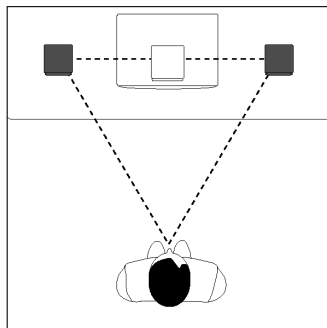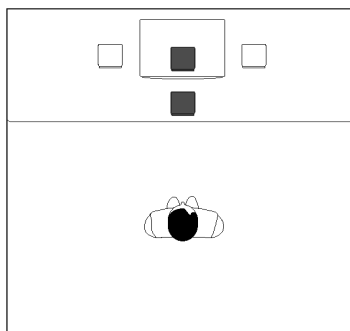5m Speaker Cable (2)

Hook and loop fasteners for Volume
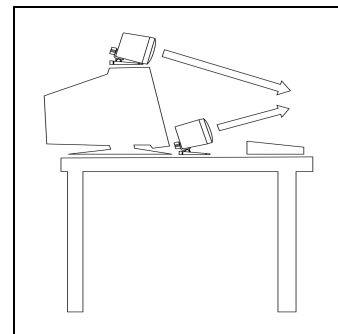Control and Monitor Stand
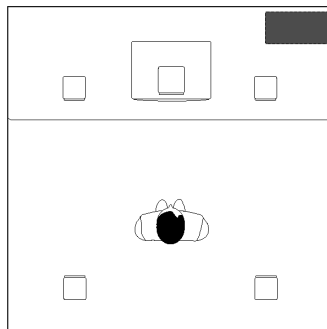
Speaker Placement

Place the front satellites to the sides of your monitor.

Use the Centre Stand to place the centre satellite either in front of or on top of your monitor.

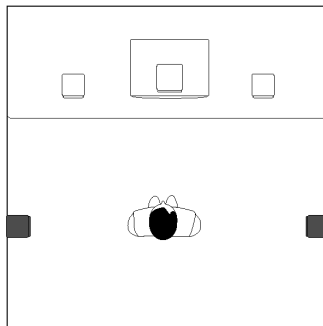Adjust the Centre Stand down for monitor placement, up for desktop placement

For the strongest bass output, place the subwoofer on the floor in a corner.

Note: The subwoofer is not magnetically shielded. Do not place it near your monitor. Don't store magnetic media within 8 inches of it.

Rear satellites mounted on walls beside you.
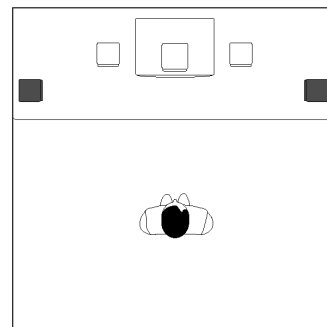
Rear satellites placed at the extreme corners of your desk.

You can also mount the front three satellites on a wall

Volume Control

The Volume Control can be mounted in either of the Desktop Stands.

If you wall-mount the front satellites, you can attach the Volume Control to a convenient surface with the hook & loop fastener provided.

Rear satellites mounted on floor stands. (if purchased)

Note: Floor stands for the rear satellites are available from www.creative.com
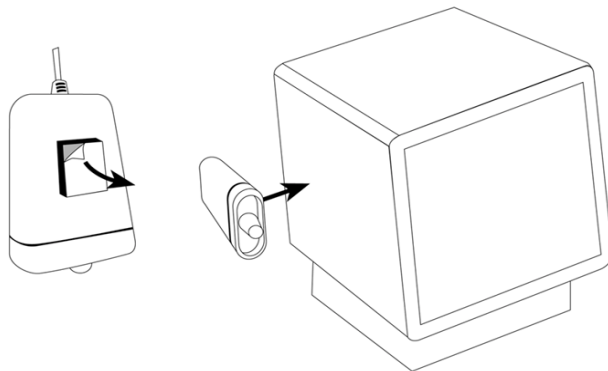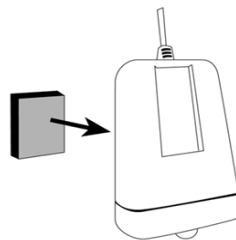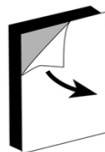
Stand Removal and Installation

Unscrew the thumbscrew to release the satellite from the Desktop Stand. Reverse the process to install a Centre Stand.
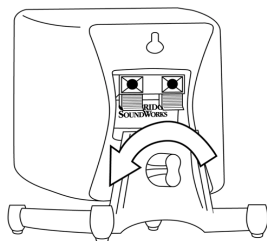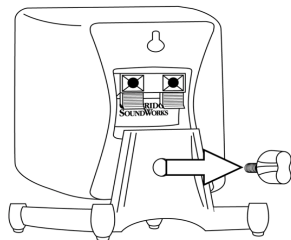
Satellites on Flat Surfaces

Before placing the satellites on a flat surface, apply the rubber pads to the bottom of the satellite.
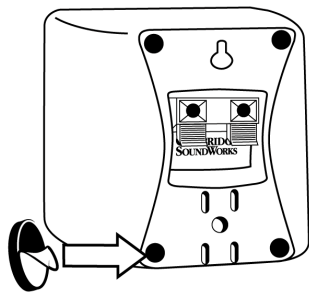
Mounting Satellites on Walls
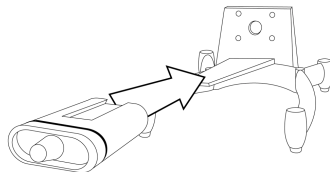
Mount satellites only on walls that are structurally sound.
Position front satellites at or slightly below ear level.
Position rear satellites to the sides and a little above ear level.

1 Apply rubber pads on the back of each rear satellite.

2 Drill a hole about 2 cm (1 inch) deep into wall.

3 Tap plastic anchor into hole until it is flush with wall.

4 Screw a M5 x 25 mm screw into anchor, leaving about 0.5 cm (¼ inch) protruding.

5 Slip keyhole slot of each rear satellite onto protruding screw.
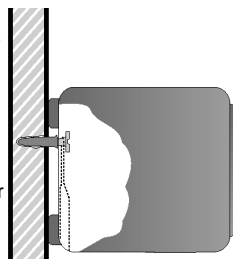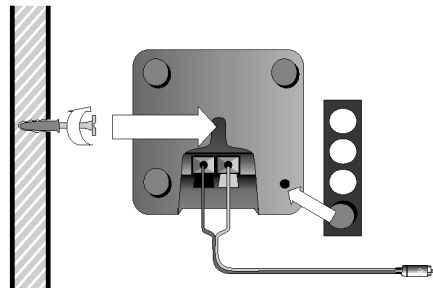
The Centre Stand

To adjust the satellite/Centre Stand assembly's vertical attitude, grip the satellite in one hand and the stand base in the other.
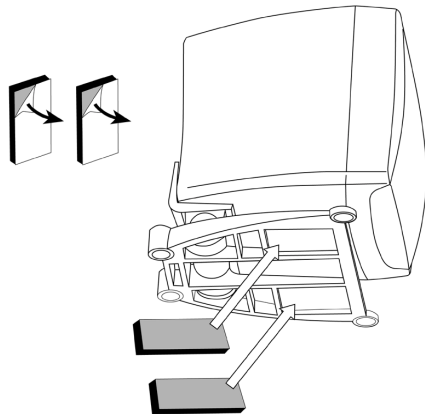
On Top of the Monitor
For safety and convenience, adhere the base of the Monitor Stand to the top of the monitor using the two strips of hook and loop fasteners.

Adjust the satellite to point horizontally or downward.
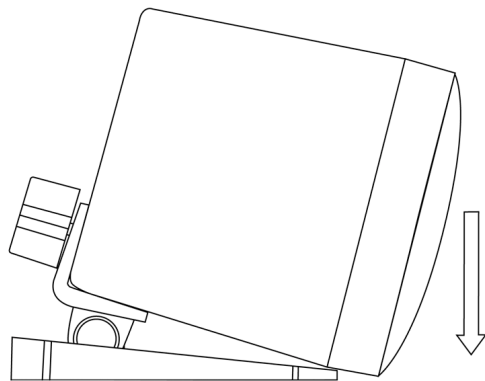
In Front of a Monitor
To prevent movement on the desktop, apply the soft feet as shown.

Adjust the satellite to point upward.
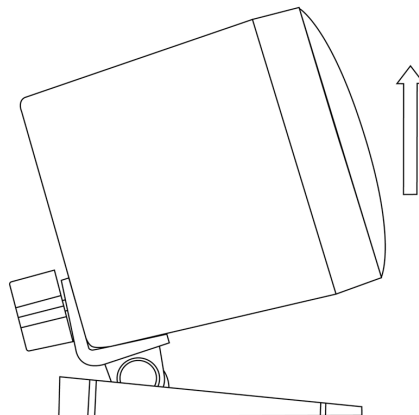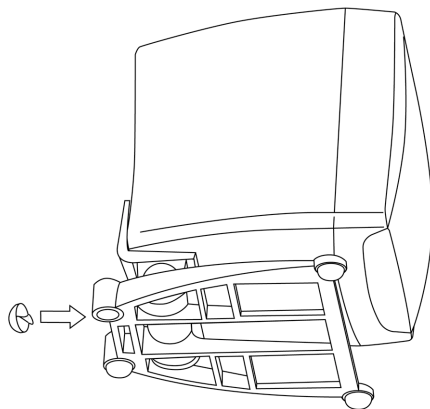
Audio Source Connection - Analog

Use the triple cable

A **To Sound Blaster Audigy/Live! 5.1 series sound card**

❒ Front, rear and centre/subwoofer miniplugs.

❒ 5.1-channel output is produced.

B **To 4-channel sound card**

❒ Front and rear miniplugs.

❒ 4.1-channel output is produced.

C **To 2-channel sound card**

❒ Front miniplug only.

❒ 2.1-channel output is produced.

D **To 2-channel stereo player**

❒ Front miniplug only.

❒ 2.1-channel output is produced.
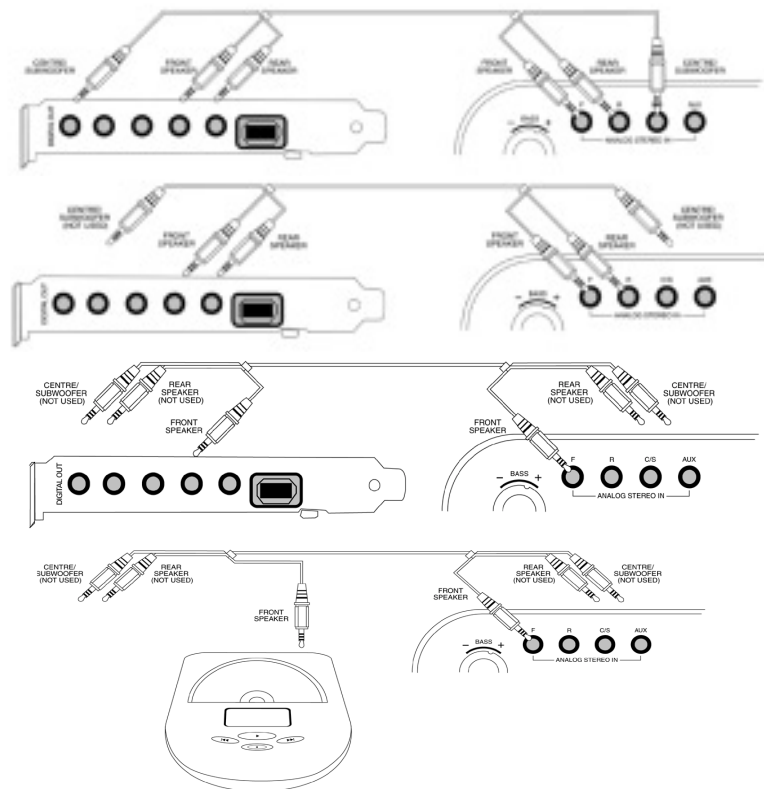
Audio Source Connection - Digital

Use the Digital cable

To Sound Blaster Audigy/Live! 5.1 series sound card

❒ Digital Out miniplug only.

❒ 5.1-channel output is produced.

❒ Be sure the "Digital Output Only" option is selected in the sound card's control software.

Digital Cable – to minijack digital output
(for example, a Sound Blaster® Audigy™ sound card)
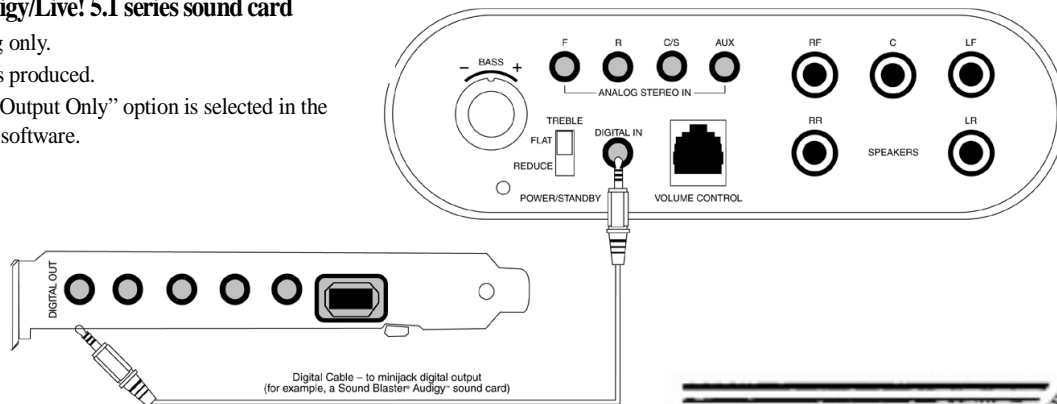
To other sound cards with minijack digital output
Use the Digital cable

❒ Digital Out miniplug only.

❒ Channel output is dependant on the sound card.

To a digital output that is not a minijack:

Use an adapter (not provided) to convert the program source's digital output to a 3.5 mm minijack, then connect to Digital In. The most common output type would be an RCA jack. Use a mono RCA plug to mono minijack adapter.
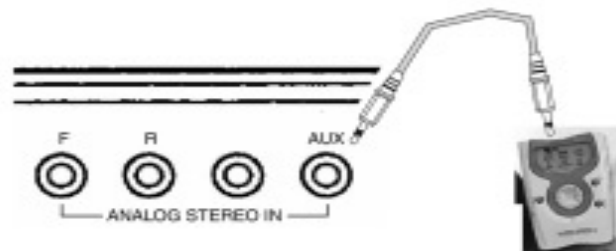
A second audio program source can be mixed with the main program (analog or digital) when connected to AUX. For a source with a 3.5mm stereo minijack output (like a headphone or line out jack on an MP3 or CD player), use a 2-meter signal cable with a 3.5mm stereo miniplug at each end. Other sources may need a cable with a 3.5mm stereo miniplug and two RCA plugs or a 3.5mm stereo miniplug and a 3.5mm stereo minijack.

Speaker Connections

Right Front Satellite – RF

Centre Satellite – C

Left Front Satellite – LF

BASS − +

TREBLE
FLAT
REDUCE

F   R   C/S   AUX

ANALOG STEREO IN

DIGITAL IN

POWER/STANDBY

VOLUME CONTROL

RF

LF

RR

LR

SPEAKERS

Right Rear Satellite – RR

Left Rear Satellite – LR
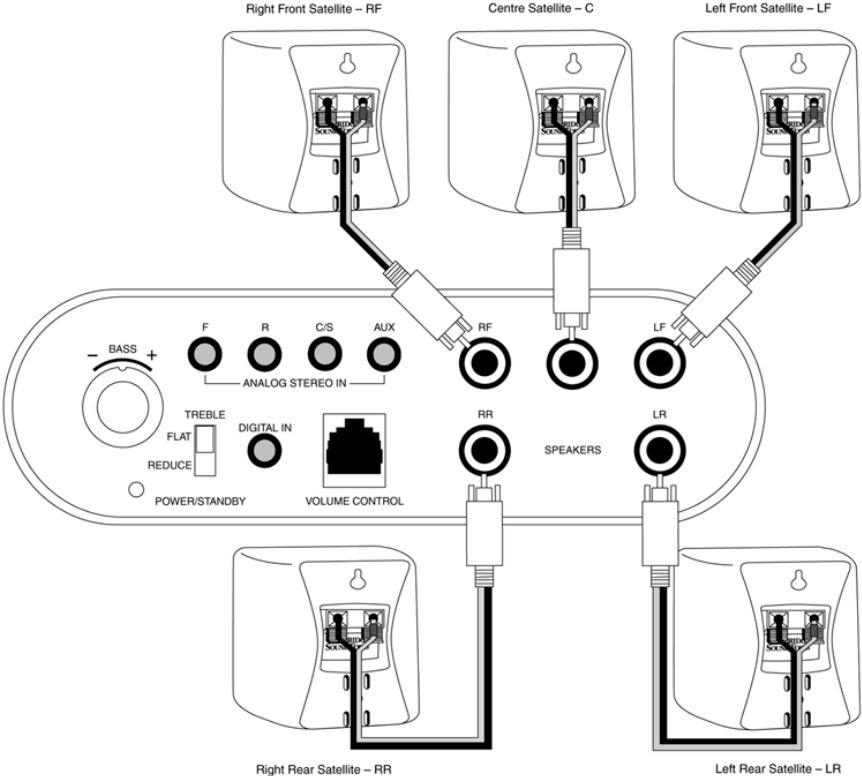
Volume Control and Power Connections

Tonal Adjustments

Adjust the Bass level control to achieve the bass output you like

Adjust the Treble switch to your preferred setting.
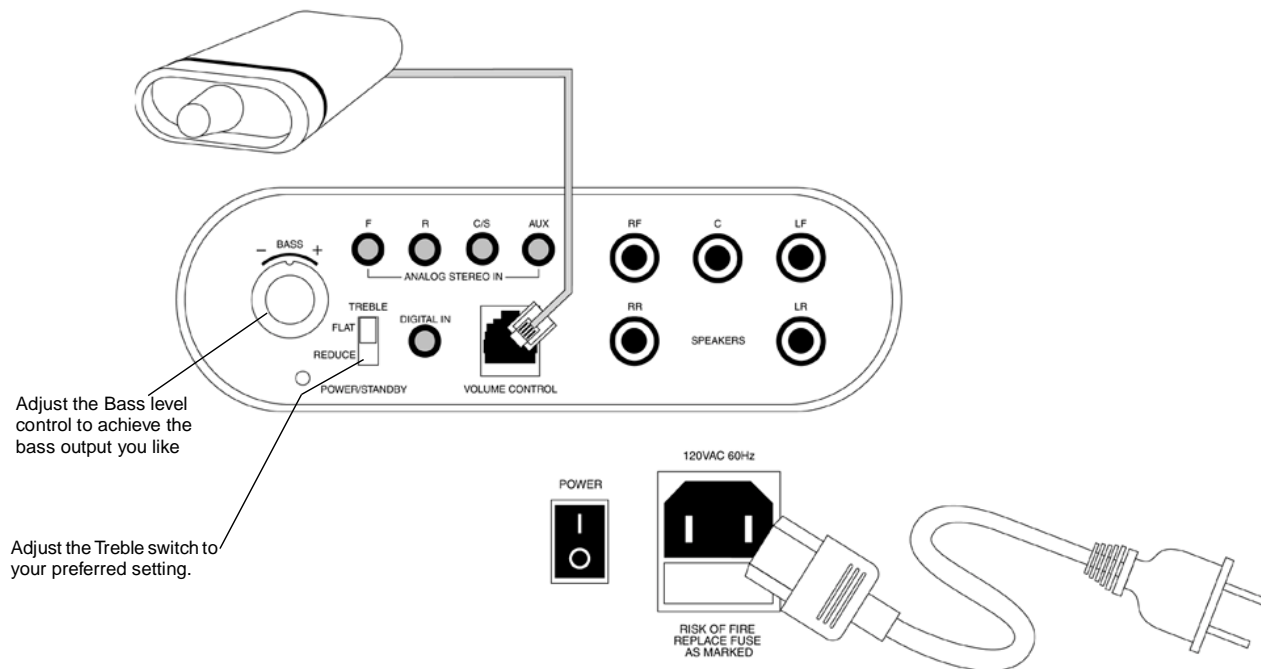
Controlling Noise and Distortion

MegaWorks 510D has moderately high input sensitivity, so it may amplify the hum and hiss inherent in some audio program sources (more common in analog rather than digital sources).
Any noise is not due to a fault in the speaker system. You can minimize background noise as follows:

Use the MegaWorks 510D volume control as your master level control. Examine your computer's sound control software (Mixer program in Sound Blaster software). Turn off any inputs you don't need (Microphone, for instance). Set the remaining input volume controls to about 70% of their overall scale.

Adjust the sound control program's master output level so that the MegaWorks 510D reaches a comfortably loud output level when the control is set straight up (12 o'clock).

Specifications

MegaWorks 510D

Six-Channel Amplifier
Satellite amplifiers, each of five:
60 watts RMS per channel at less than .1% total harmonic distortion at 1 kHz.

Subwoofer amplifier:
150 watts RMS at less than .3% total harmonic distortion at 100 Hz.

Amplifier signal to noise (analog or digital):
Greater than 95 dB.

EAX™

EAX is a collection of powerful, innovative audio technologies. Designed by Creative's world-class audio scientists and built into groundbreaking Personal Digital Entertainment (PDE) solutions, EAX is changing the way audio is experienced.

EAX offers advanced, interactive audio and high-definition sound to a new generation of portable audio appliances, audio applications, and internet services.

With its five compact, amplified satellite speakers and separate subwoofer, theMegaWorks 510D is an ideal 5.1 entry-level EAX speaker system for your home theatre entertainment. With it, you will experience exceptional 3D positional and 5.1 audio for movies and games, when used with the powerful Sound Blaster Live! series of audio cards. For more information on EAX, be sure to visit EAX.creative.com.

Technical Support

We are committed to giving you the best products aswell as the best service by providing you with a comprehensive suite of eService options complemented by telephone support.

With Creative's eService strategy, we deliver the best possible customer experience using our multilingual Customer support portal, interactive chat, email support and our self-service knowledgebase.

The European support area on our website at **www.europe.creative.com** contains the following options:

Knowledgebase

Creative's Self-service knowledgebase empowers you to quickly resolve your queries by using natural language support and stepping you through targeted questions to help pinpoint the best solution to your particular problem. Should you need additional help, you can escalate your query online through live chat or email ensuring that you receive the best possible service in the manner that is most comfortable to you.

Webchat

Creative's interactive TextChat enables you to contact our Technical Support team through a real-time chat facility. Additional features, such as web page pushing, collaborative browsing and file and brochure exchange, transform your chat session into a fully interactive support experience.

eMail

Should you not obtain a solution to your query using our Knowledgebase system, you can click the 'Not Solved' button located at the bottom of any suggested solution document to escalate your query via eMail. If you do not have access to our website then you can mail us directly at **support@europe.creative.com**.

Telephone

You have the option to contact our service support team via

telephone. Telephone numbers can be found in the **'Creative European Contact Centre'** section below.

Download Drivers

The Creative website offers a range of updates and drivers for our products in a variety of operating systems.

Download Manuals

Browse Creative's extensive library of product installation and user guides to find documentation for your Creative product.

If You Have a Problem

Please retain all contents including packaging and proof of purchase until you are fully satisfied with your product.

If you have a problem installing or using your Creative product, please use the Creative eServices and/or telephone support for assistance. Should you contact Technical Support, you may be asked for information regarding the following:

❏ The model and serial number of your Creative product
❏ Error information on the screen and how it came about
❏ Information on the adapter cards which may be causing a conflict
❏ Hardware configuration information such as the base I/O address,
   IRQ line, DMA channels used
❏ Motherboard information: BIOS manufacturer/version and chipset manufacturer
❏ Type and version of your operating system, e.g., Windows 95/98 or Windows NT, Windows 2000 or Windows Me

If, after using the Creative support services, you believe your Creative product to be defective, you should verify the purchase date and the take the appropriate action as detailed below:

Less than 30 days since date of purchase

Should your store receipt indicate that the product is less than 30 days old, you have the option of returning the full product to the Dealer/Retailer for a replacement or credit. The 30-day time period may not apply in all instances, so please check the Dealer/Retailer replacement/credit terms.

More than 30 days since date of purchase

Contact European Technical Support to clarify the nature of the problem and to obtain details of our repair/replacement procedure.

Returning a product for repair

❑ Creative Labs requires that all returns for repair/replacement must first be issued with an authorisation number, therefore you need to contact Technical Support to receive this number.
❑ Technical Support will communicate how to return the product in question for repair/replacement.
❑ You should only return the hardware item in question and return it to the address provided by Technical Support. Please retain all software, accessories and the original packaging.

❑ Please quote the authorisation number clearly on the outside of the packaging in which you return the hardware item.
❑ After receiving the hardware, Creative will process the return.

Creative may replace or repair the product with new or re-conditioned parts, and the faulty parts will become the property of Creative. The warranty period for your repaired/replacement item is 90 days from the date of shipment from Creative, or what is left on the original item's warranty, whichever is longer.

To avoid tariffs when shipping a product to Creative Labs from outside the E.U. or from zones with special tax status, you must complete the relevant customs documentation before shipping the product.

Operating Hours

Knowledgebase	Available on-line 24 hours a day
Webchat[*]	10:00-18:30 CETMonday - Friday
Telephone[*]	10:30-19:00 CETMonday - Friday

[*] *Closed Sat-Sun & Public Holidays*

Limited Warranty

Creative Labs (Ireland) Limited ("Creative") warrants to you, the original buyer and holder of this warranty, as it stands in the accompanying warranty card, that the hardware product will be free of defects in materials and workmanship for a period of two years after the date of purchase, or such other period as may be expressly specified by Creative or required by applicable law ("Warranty Period").

Creative's entire liability and your remedy will be, at Creative's sole discretion, the repair or replacement (with the same or similar model) of any hardware or accompanying item(s) not meeting the "Limited Warranty" explained above that is returned to Creative's authorised distributor or dealer during the Warranty Period with a copy of your receipt.

What this warranty does not cover

To the maximum extent permitted by applicable law, Creative disclaims all other warranties and conditions, expressed or implied, including the conditions of quality, merchantability or fitness for a particular purpose with respect to the use of this product. Creative also disclaims any obligation to support products for all operating environments - for example, by ensuring interoperability with future versions of software or hardware. In no event shall Creative or its licensors be liable for any indirect, incidental, special or consequential loss or for any lost profits, savings or data arising from or relating to the use of this product, even if Creative or its licensors have been advised of the possibility of such loss.

Specifically, this warranty does not cover failures of the product which result from accident, abuse, misuse, alterations (by persons other than Creative or its authorized repair agents), moisture, corrosive environments, shipping, high voltage surges, or abnormal working conditions. This warranty does not cover normal wear and tear. You are specifically advised to take a backup copy of any software provided with the Creative product for security purposes.

This warranty gives you specific legal rights. You may have other rights which vary from country to country. Certain limitations in this warranty are not permitted by the jurisdiction of some countries, so some limitations here may not apply to you.

Creative European Contact Centre

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Technical Support Department,
Ballycoolin Business Park, Blanchardstown, Dublin 15, Ireland.
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Spain
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Italy
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Austria
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Belgium
Tel   +353 1 4333291

Denmark
Tel   +353 1 4333230

Finland
Tel   +353 1 4333270

Norway
Tel   +353 1 4333240

Sweden
Tel   +353 1 4380030

Holland
Tel   +353 1 4333272

Switzerland
Tel   +353 1 4380070

Portugal
Tel   +353 1 4380010

Czech Republic
Tel   +353 1 4333280

Poland
Tel   +353 1 4380040

Hungary
Tel   +353 1 4333290

Russia
Tel   +353 1 4380080

Please note that international call rates will apply. Please contact your telecoms company to verify the exact rate you will be charged.